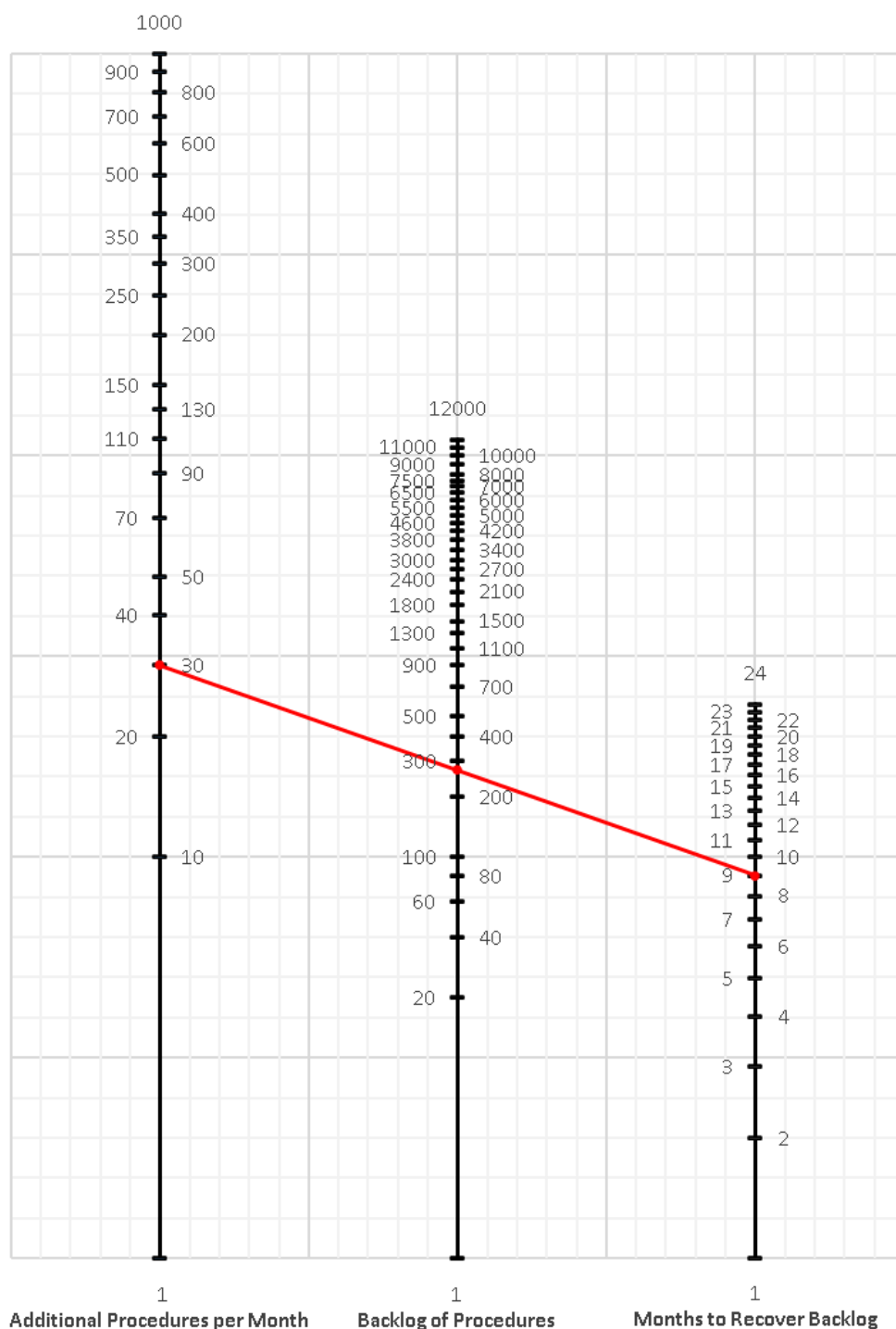


Supplemental Material

Supplemental Figure 1. Nomogram to calculate the relationship between unperformed cases, potential monthly case capacity above baseline, and months needed to clear backlog of cases. Formula: Monthly increase in volume of cases x desired number of months to clear unperformed cases = total number of unperformed cases that can be cleared. Example (red line): From 4/1/2020 to 10/1/2020 (6 months) we performed 55 colonoscopies per month when we typically perform 100 per month. We have a backlog of 270 colonoscopies. We can perform up to 130 colonoscopies per month, 30 beyond our typical 100. By connecting the 30 on the far-left line with 270 on the middle line using a straight edge, we calculate that it will take 9 months to clear the backlog.

Alternatively, we calculate that we have 270 unperformed colonoscopies. We want to clear these unperformed procedures within 9 months. By connecting the 9 on the far-right line with 270 on the middle line using a straight edge, we calculate that we need to increase our colonoscopy volume by 30 per month to address the backlog in the desired timeframe.



Supplemental Table 1. ICD-10 Codes for a diagnosis of prostate, lung, bladder, or colorectal cancer.

ICD-10 Code	Cancer Type	ICD 10 Description
C61.	Prostate	Malignant neoplasm of prostate
C33.	Lung	Malignant neoplasm of trachea
C34.0	Lung	Malignant neoplasm of unspecified main bronchus
C34.1	Lung	Malignant neoplasm of right main bronchus
C34.2	Lung	Malignant neoplasm of left main bronchus
C34.10	Lung	Malignant neoplasm of upper lobe, unspecified bronchus or lung
C34.11	Lung	Malignant neoplasm of upper lobe, right bronchus or lung
C34.12	Lung	Malignant neoplasm of upper lobe, left bronchus or lung
C34.2	Lung	Malignant neoplasm of middle lobe, bronchus or lung
C34.30	Lung	Malignant neoplasm of lower lobe, unspecified bronchus or lung
C34.31	Lung	Malignant neoplasm of lower lobe, right bronchus or lung
C34.32	Lung	Malignant neoplasm of lower lobe, left bronchus or lung
C34.80	Lung	Malignant neoplasm of overlapping sites of unspecified bronchus and lung
C34.81	Lung	Malignant neoplasm of overlapping sites of right bronchus and lung
C34.82	Lung	Malignant neoplasm of overlapping sites of left bronchus and lung
C34.90	Lung	Malignant neoplasm of unspecified part of unspecified bronchus or lung
C34.91	Lung	Malignant neoplasm of unspecified part of right bronchus or lung
C34.92	Lung	Malignant neoplasm of unspecified part of left bronchus or lung
C39.0	Lung	Malignant neoplasm of upper respiratory tract, part unspecified
C39.9	Lung	Malignant neoplasm of lower respiratory tract, part unspecified
C67.0	Bladder	Malignant neoplasm of trigone of bladder
C67.1	Bladder	Malignant neoplasm of dome of bladder
C67.2	Bladder	Malignant neoplasm of lateral wall of bladder
C67.3	Bladder	Malignant neoplasm of anterior wall of bladder
C67.4	Bladder	Malignant neoplasm of posterior wall of bladder
C67.5	Bladder	Malignant neoplasm of bladder neck
C67.6	Bladder	Malignant neoplasm of ureteric orifice
C67.7	Bladder	Malignant neoplasm of urachus
C67.8	Bladder	Malignant neoplasm of overlapping sites of bladder
C67.9	Bladder	Malignant neoplasm of bladder, unspecified
C18.0	Colorectal	Malignant neoplasm of cecum
C18.1	Colorectal	Malignant neoplasm of appendix
C18.2	Colorectal	Malignant neoplasm of ascending colon
C18.3	Colorectal	Malignant neoplasm of hepatic flexure
C18.4	Colorectal	Malignant neoplasm of transverse colon
C18.5	Colorectal	Malignant neoplasm of splenic flexure
C18.6	Colorectal	Malignant neoplasm of descending colon
C18.7	Colorectal	Malignant neoplasm of sigmoid colon
C18.8	Colorectal	Malignant neoplasm of overlapping sites of colon
C18.9	Colorectal	Malignant neoplasm of colon, unspecified
C19.	Colorectal	Malignant neoplasm of rectosigmoid junction
C20.	Colorectal	Malignant neoplasm of rectum
C26.0	Colorectal	Malignant neoplasm of intestinal tract, part unspecified
C49.A4	Colorectal	Gastrointestinal stromal tumor of large intestine
C49.A5	Colorectal	Gastrointestinal stromal tumor of rectum

Supplemental Table 2. CPT Codes for diagnostic or screening procedures to identify prostate, lung, bladder, or colorectal cancer.

CPT Code	Procedure Category	Cancer Type	Procedure Description
55700	Prostate biopsy	Prostate	Biopsy, prostate; needle or punch, single or multiple, any approach
55705	Prostate biopsy	Prostate	Biopsy, prostate; incisional, any approach
55706	Prostate biopsy	Prostate	Biopsy, prostate; saturation
71250	CT chest	Lung	Computed tomography, thorax; without contrast material
71260	CT chest	Lung	Computed tomography, thorax; with contrast material(s)
71270	CT chest	Lung	Computed tomography, thorax; without contrast material, followed by contrast material(s) and further sections
71271	CT chest	Lung	Low dose CT scan for lung cancer screening
71275	CT chest	Lung	Computed tomographic angiography, chest (noncoronary), with contrast material(s), including noncontrast images, if performed, and image postprocessing
G0297	Screening CT chest	Lung	Low dose CT scan for lung cancer screening
S8032	Screening CT chest	Lung	Low dose CT scan for lung cancer screening
52000	Cystoscopy	Bladder	Cystourethroscopy (separate procedure)
52204	Cystoscopy	Bladder	Cystourethroscopy, with biopsy(s)
52214	Cystoscopy	Bladder	Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) of trigone, bladder neck, prostatic fossa, urethra, or periurethral glands
52224	Cystoscopy	Bladder	Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) or treatment of MINOR (less than 0.5 cm) lesion(s) with or without biopsy
52234	Cystoscopy	Bladder	Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of; SMALL bladder tumor(s) (0.5 up to 2.0 cm)
52235	Cystoscopy	Bladder	Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of; MEDIUM bladder tumor(s) (2.0 to 5.0 cm)
52240	Cystoscopy	Bladder	Cystourethroscopy, with fulguration (including cryosurgery or laser surgery) and/or resection of; LARGE bladder tumor(s)
52351	Cystoscopy	Bladder	Cystourethroscopy, with ureteroscopy and/or pyeloscopy; diagnostic
52354	Cystoscopy	Bladder	Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with biopsy and/or fulguration of ureteral or renal pelvic lesion
52355	Cystoscopy	Bladder	Cystourethroscopy, with ureteroscopy and/or pyeloscopy; with resection of ureteral or renal pelvic tumor
45355	Colonoscopy	Colorectal	Colonoscopy, rigid or flexible, transabdominal via colotomy, single or multiple

45378	Colonoscopy	Colorectal	Colonoscopy, flexible, proximal to splenic flexure; diagnostic, with or without collection of specimen(s) by brushing or washing, with or without colon decompression (separate procedure)
45380	Colonoscopy	Colorectal	Colonoscopy, flexible, proximal to splenic flexure; with biopsy, single or multiple
45383	Colonoscopy	Colorectal	Colonoscopy, flexible, proximal to splenic flexure; with ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique
45384	Colonoscopy	Colorectal	Colonoscopy, flexible, proximal to splenic flexure; with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps or bipolar cautery
45385	Colonoscopy	Colorectal	Colonoscopy, flexible, proximal to splenic flexure; with removal of tumor(s), polyp(s), or other lesion(s) by snare technique
44388	Colonoscopy	Colorectal	Colonoscopy through stoma; diagnostic, with or without collection of specimen(s) by brushing or washing (separate procedure)
44389	Colonoscopy	Colorectal	Colonoscopy through stoma; with biopsy, single or multiple
44392	Colonoscopy	Colorectal	Colonoscopy through stoma; with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps or bipolar cautery
44393	Colonoscopy	Colorectal	Colonoscopy through stoma; with ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique
44394	Colonoscopy	Colorectal	Colonoscopy through stoma; with removal of tumor(s), polyp(s), or other lesion(s) by snare technique
45300	Colonoscopy	Colorectal	Proctosigmoidoscopy, rigid; diagnostic, with or without collection of specimen(s) by brushing or washing (separate procedure)
45305	Colonoscopy	Colorectal	Proctosigmoidoscopy, rigid; with biopsy, single or multiple
45308	Colonoscopy	Colorectal	Proctosigmoidoscopy, rigid; with removal of single tumor, polyp, or other lesion by hot biopsy forceps or bipolar cautery
45309	Colonoscopy	Colorectal	Proctosigmoidoscopy, rigid; with removal of single tumor, polyp, or other lesion by snare technique
45315	Colonoscopy	Colorectal	Proctosigmoidoscopy, rigid; with removal of multiple tumors, polyps, or other lesions by hot biopsy forceps, bipolar cautery or snare technique
45320	Colonoscopy	Colorectal	Proctosigmoidoscopy, rigid; with ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique (eg, laser)
45330	Colonoscopy	Colorectal	Sigmoidoscopy, flexible; diagnostic, with or without collection of specimen(s) by brushing or washing (separate procedure)
45331	Colonoscopy	Colorectal	Sigmoidoscopy, flexible; with biopsy, single or multiple

45333	Colonoscopy	Colorectal	Sigmoidoscopy, flexible; with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps or bipolar cautery
45338	Colonoscopy	Colorectal	Sigmoidoscopy, flexible; with removal of tumor(s), polyp(s), or other lesion(s) by snare technique
45339	Colonoscopy	Colorectal	Sigmoidoscopy, flexible; with ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique
45340	Colonoscopy	Colorectal	Sigmoidoscopy, flexible; with dilation by balloon, 1 or more strictures
G0104	Colonoscopy	Colorectal	Colorectal cancer screening; flexible sigmoidoscopy
G0105	Colonoscopy	Colorectal	Colorectal cancer screening; colonoscopy on individual at high risk
G0121	Colonoscopy	Colorectal	Colorectal cancer screening; colonoscopy on individual not meeting criteria for high risk
81528	FOBT	Colorectal	Cologuard, FOBT + DNA screening test for colorectal cancer
82270	FOBT	Colorectal	FOBT for colorectal cancer screening
82272	FOBT	Colorectal	FOBT for non-cancer reasons
82274	FOBT	Colorectal	FOBT unspecified
G0328	FOBT	Colorectal	FOBT
81528	FOBT	Colorectal	FOBT for colorectal cancer screening
FOBT -fecal occult blood test			